



**Marc Stapelfeldt:**  
**Suction Caissons and the Influence of  
Drainage Regime**

Report on OSIGp Lunch Technical Meeting (LTM)  
Held online (Teams)

Chair: Raffaele Ragni, OSIGp Committee Member



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On 20 July 2021, OSIGp held an online Lunch Technical Meeting (LTM) via Microsoft Teams. The event was chaired by OSIGp committee member Raffaele Ragni and presented by Marc Stapelfeldt, Project manager / Geotechnical engineer at IGB Hamburg. The contribution of committee members Laith Tapper to the organization of the event is also acknowledged.

Laith Tapper provided an introductory overview on the activities of OSIGp and SUT in the role of OSIGp committee chair and acknowledged the sponsor for the event, the Norwegian Geotechnical Institute.

The LTM provided an overview of Marc's research on suction caissons. This concerned with both numerical analyses and centrifuge tests, which investigated the suction installation and the caisson response to vertical cyclic loading. The results showed no evidence of an effect of the suction caisson installation on the in-service performance. The response to vertical cyclic loading was determined by the drainage regime and the interplay between tension and compression.

The chair Raffaele Ragni opened a 20-minute Q&A session after a well-timed presentation, which led to the end of the event at 1PM. Questions were addressed to the speaker via the Teams chat box.

This OSIGp LTM was a free event for all and roughly 50 people attended the event (UWA joined as a group under a single account). Overall, the event was positively received by the audience, which actively engaged in the Q&A session. The OSIGp committee thanks Marc for giving his time (at a very early hour in Germany due to the time zone difference) to present this OSIGp LTM.



*The speaker: Marc Stapelfeldt*